parviglumis (Teosinte), and a Tripsacum species. A positive control for PCR was used to obtain previously known sequences from: Arabidopsis thaliana, Pisum sativum (pea) and three varieties (Hark 89, L85 and Williams) of Glycine max (soybean).--

In the claims:

Please cancel claims 5-8, 13-14, 19-20 and 24.

Please amend claims 1-4, 9-12, 15-18, 21-23 and 25 as follows:

-- 1. (Amended ) An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:

(a) a sequence having more than 85% identity to SEQ ID NO 62;

(b) a sequence encoding a polypeptide comprising an amino acid sequence having more than 85% identity to SEQ ID NO 63; and

(c) a sequence fully complementary to (a) or (b).

2. (Amended) A transformed seed containing a recombination construct comprising a nucleic acid of claim 1.

3. (Amended) A transformed plant containing a recombination construct comprising a nucleic acid of claim 1.

4. (Amended) The nucleic acid molecule of claim 26, said nucleic acid further comprising a gag coding sequence and an env coding sequence, wherein adenine-thymidine-guanidine is the gag coding sequence start codon.

9. (Amended) An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:

(a) a sequence having more than 95% identity to SEQ ID NO 62;

(b) a sequence encoding a polypeptide comprising an amino acid sequence having more than 95% identity to SEQ ID NO 63; and

(c) a sequence fully complementary to (a) or (b).

10. (Amended) A transformed seed containing a recombination construct comprising a nucleic acid of claim 9.

11. (Amended) A transformed plant containing a recombination construct comprising a nucleic acid of claim 9.

A3 cont'd

12. (Amended) The nucleic acid molecule of claim 27, said nucleic acid further comprising a gag coding sequence and an env coding sequence, wherein adenine-thymidine-guanidine is the gag coding sequence start codon.

A4

15. (Amended) The nucleic acid molecule of claim 9, wherein said nucleic acid molecule comprises a nucleic acid sequence having 100% identity to SEQ ID NO:62.

16. (Amended) A transformed seed containing a recombination construct comprising a nucleic acid of claim 15.

17. (Amended) A transformed plant containing a recombination construct comprising a nucleic acid of claim 15.

18. (Amended) The nucleic acid molecule of claim 33, said nucleic acid further comprising a gag coding sequence and an env coding sequence, wherein adenine-thymidine-guanidine is the gag coding sequence start codon.

A5

21. (Amended) The nucleic acid of claim 15, which further comprises at least one nucleic acid sequence which encodes at least one agronomically-significant characteristic.

22. (Amended) The nucleic acid molecule of claim 21, wherein the agronomically-significant characteristic is selected from the group consisting of: male sterility; self-incompatibility; foreign organism resistance; improved biosynthetic pathways; environmental tolerance; photosynthetic pathways; and nutrient content.

23. (Amended) The nucleic acid molecule of claim 21, wherein the agronomically-significant characteristic is selected from the group consisting of: fruit ripening; oil biosynthesis;

pigment biosynthesis; seed formation; starch metabolism; salt tolerance; cold/frost tolerance; drought tolerance; tolerance to anaerobic conditions; protein content; carbohydrate content (including sugars and starches); amino acid content; and fatty acid content.

25. (Amended) The plant of claim 17, which plant is selected from the group consisting of: soybean; maize; sugar cane; beet; tobacco; wheat; barley; poppy; rape; sunflower; alfalfa; sorghum; rose; carnation; gerbera; carrot; tomato; lettuce; chicory; pepper; melon; cabbage; oat; rye; cotton; flax; potato; pine; walnut; citrus; hemp; oak; rice; petunia; orchids; Arabidopsis; broccoli; cauliflower; brussel sprouts; onion; garlic; leek; squash; pumpkin; celery; pea; bean; strawberries; grapes; apples; pears; peaches; banana; palm; cocoa; cucumber; pineapple; apricot; plum; sugar beet; lawn grasses; maple; triticale; safflower; peanut; and olive.
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Please add claims 26-33.

--26. The nucleic acid of claim 1, wherein a pol coding sequence comprises said nucleic acid.

27. The nucleic acid of claim 9, wherein a pol coding sequence comprises said nucleic acid.

28. The nucleic acid molecule of claim 9, wherein said nucleic acid molecule encodes a polypeptide having an amino acid sequence with 100% identity to SEQ ID NO:63.

29. A transformed seed containing a recombination construct comprising the nucleic acid of claim 28.

30. A transformed plant containing a recombination construct comprising the nucleic acid of claim 28.

31. The nucleic acid of claim 28, wherein a pol coding sequence comprises said nucleic acid.

32. The nucleic acid of claim 31, said nucleic acid further comprising a gag coding sequence and an env coding sequence, wherein adenine-thymidine-guanidine is the gag coding sequence start codon.

33. The nucleic acid of claim 15, wherein a pol coding sequence comprises said nucleic acid.--